N-PFPS

Date: 28 July 98

IPT Lead: Major Steve Bennett

Product Description / Mission

Mission: To field a PC-based certified fuel planner.

Objective: To provide automated flight planning & GPS load to all the fleet and to mitigate the risk of migration to NT by JMPS.

Stage: Fielding, Development

FY 98 Total:

Last Reviews:		RDT&E	.516
24 Jun	DRB v3.01	Drop-In Poly	.268
			.784
Next Reviews:			
11-13 Aug	TIM, ICWG, SRB, v3.2 CCB	*Common Helo*	*.420*
			1.169
16 Sep	FPM ICWG		

NAVAIR

FY98 Execution

PEO (T) — Mission Planning

Date: 980727				
RDT&E (Appropriation)	**Amount**			
FY97:				
Carried Forward *:	$111,000			
FY98:				
PFPS (N62):	$516,000			
Drop-In Poly (N88):	$268,000			
Total Control:	**$895,000**			
Common Helo (N88):	$420,000			
Total Control w/Common Helo:	**$1,315,000**			
RDT&E (Tasking)	**Amount**	**Organization / Contractor**	**Organization POC**	**Comments**
FPM Development:	$390,000	46TS - Eglin AFB	J Thorn	
FPM Certification:	$143,000	NAWCAD - Pax River	M Caddy	
Training / Tech Spt:	$130,000	SpaWar Det Phil	S Fox	
PFPS / 6.2 Interface:	$29,000	NAWCWPNS - Point Mugu	R Nixon	
PFPS Development:	$121,000	46TS - Eglin AFB	J Thorn	
FPM Certification:	$7,000	NAWCAD - Pax River	M Caddy	* Not paid as of 27 Jul 98
GPS Study:	$82,000	DCS	K Walsh	* Not paid as of 27 Jul 98
Total Tasking:	**$895,000**			
GPS AWE Development:	$300,000	46TS - Eglin AFB	J Thorn	
MDL-R:	$120,000	(?)	(Allison Fairell)	

NAVAIR

FY99 Spend Plan

(1st Look)

PEO (T) — Mission Planning

Date: 980727

FY'99 Spend Plan

N-PFPS:

Appropriation (RDT&E):	Amount
PFPS (N62):	$577,530
Drop-In Poly (N88):	$231,795
N-PFPS Control:	**$809,325**

Tasking:	Amount	Organization / Contractor	Organization POC	Obligation Date	Comments
FPM Development:	$402,000	46TS - Eglin AFB	R Johnson	Oct '98	Navy Team (4 P-Yr)
FPM Development:	$0	NAWC-AD - Pax River	Tom Rudowsky	TBD	
FPM Certification:	$300,000	NAWC-AD - Pax River	M Caddy	Oct '98	2 P-Yr
PFPS Development:	$250,000	46TS - Eglin AFB	R Johnson	Oct '98	2 P-Yr
Training / Tech Spt:	$140,000	SpaWar Det Phil	S Fox	Oct '98	
Contractor Support:	$140,000	TBD	TBD	Oct '98	Jon Drof
PCMCIA Driver / License:	$300,000	TBD	TBD	TBD	Is this a HW bill?
Total Current Tasking:	**$1,532,000**				
Control Shortfall:	**($722,675)**				

Common Helo:

Appropriation (RDT&E):	Amount
Common Helo (N88):	$362,274
Common Helo Control:	**$362,274**

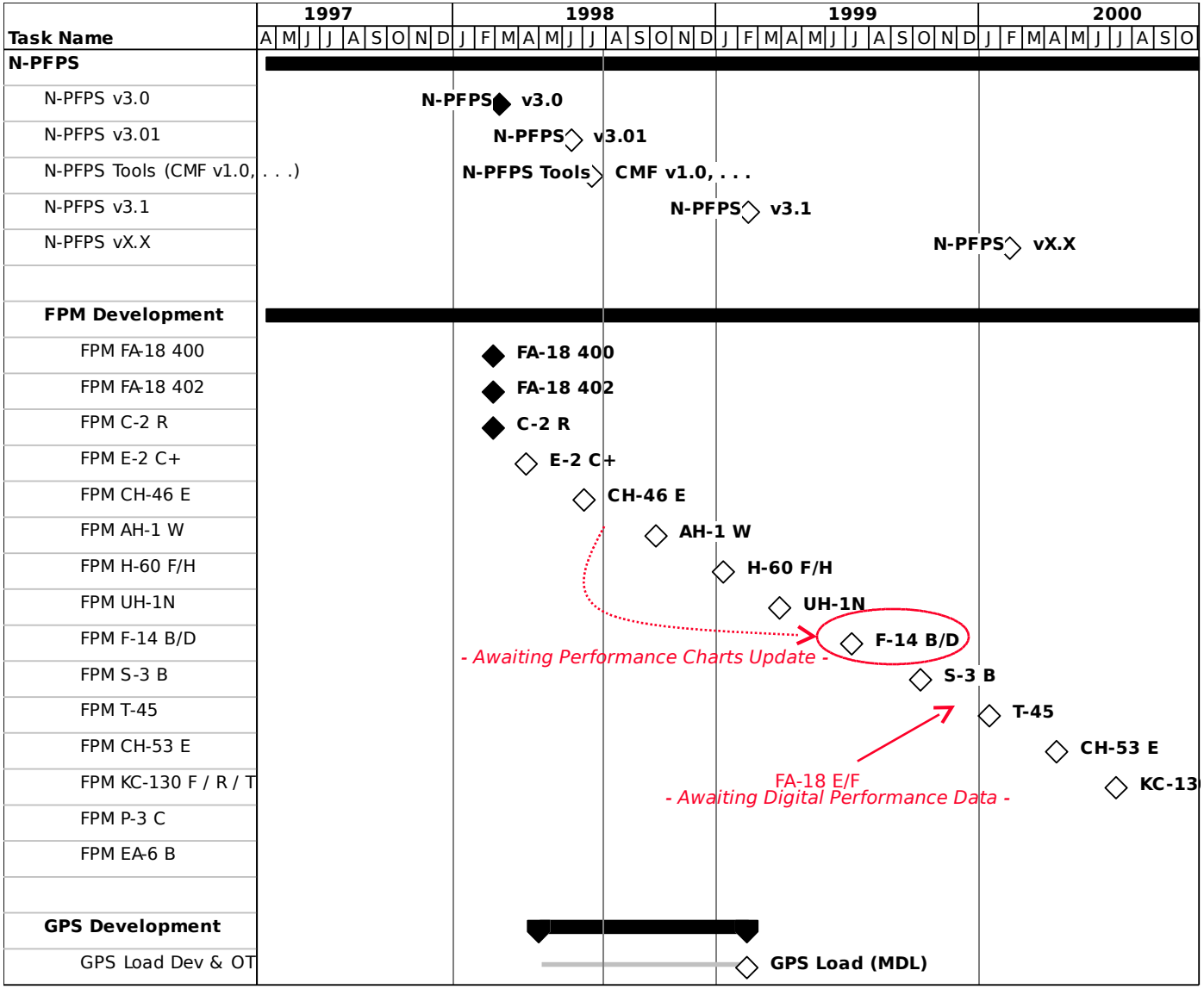
Tasking:	Amount	Organization / Contractor	Organization POC	Obligation Date	Comments
TBD		TBD	TBD	TBD	
Total Current Tasking:	**$0**				

** Will Stand-Up Common Helo IPT in Sep '98 **

NAVAIR

N-PFPS Schedule

PEO (T) — Mission Planning



NAVAIR

N-PFPS Assessments

PEO (T) — Mission Planning

IPT Comments & Issues:	Assessments	May	Jun	Jul	Aug
Schedule:	Technical	G	G	G	G
FPM Production Rate	Cost	G	G	G	G
Funding:	Schedule	Y	Y	Y	Y
FY '99 Funding Shortfall	Funding	B	B	Y	Y
Hardware:	Software	G	G	G	G
PC Controller Card	Hardware	G	G	Y	G
Test & Evaluation:	Test & Evaluation	B	B	B	B
Test Req for GPS Load	Production	G	G	G	G
Test Req for Enhanced N-PFPS / TAMPS Integration	Logistics & Readi Obj.	Y	R	Y	B
Logistics & Rediness Obj:	Documentation Status	G	G	G	G
Help Desk Support Training	Mngt & Global Issues	R	Y	B	B
N-PFPS (HW) Supportability Plan					
Mngt & Global Issues:					
Full-Time (In House) Support					
Data Load: #Recepticles & PCMCIA Format					

Flight Performance Modules

- Rate of Development -

- **Issue:**
  - **Development Rate of Flight Performance Modules (FPMs):**

- **Discussion:**
  - **Current funding supports a development rate of 4 - 6 FPMs per year.**
  - **Need a development rate of 8 FPMs per year through FY00 in order for all fleet aircraft to have "Certified Drop-In Performance Polynomials" by the end FY00.**
  - **By FY00, anticipate 4 FPMs per year will require maintenance due to performance chart updates.**

- **Resolution:**
  - **Unresolved.**

  - **Proof of Concept by Air 4.3.2 not expected until late CY '98.**
  - **Chop & Sign MOA with Aircraft Energy Conservation Program (AECP)**

Test Requirements for GPS Data Load

- **Issue:**
  - **Test Requirements for GPS Data Load**

- **Discussion:**
  - **According to PMW-187:**
    - **PMW-187 is the certifying authority for GPS data loading**
    - **Does not require OpEval**
  - **According to Lt Joe Gardner:**
    - **Will need TEMP to OpEval**
    - **Unsure who would do OpEval**
      - **VX-9 does not have OpEval responsibility for the aircraft that will be supported by the GPS load that we are developing.**

- **Resolution:**
  - **Unresolved**

  - **JimLacey to incorporate requirements into TEMP?**
  - **Dropped as an agenda item for 14 Jul teleconference with OpTEvFor.**

Data Load Hardware

- **Issue:**
  - **Data Load Devices for N-PFPS**
  - **OAG #2 Priority (OAG #1 Priority - May '98 OAG)**
- **Discussion:**
  - **Currently developing (Common Helo $'s) GPS load - N-PFPS v3.1 (Feb '99)**
  - **SW being developed will support 130 squadrons**
    - **With a slight mod, 150 squadrons could be supported**
      - **E-2C (needs an additional files)**
      - **F-14 (writes load at end of cartridge)**
  - **Options:**
    - **"Shoe Box" (SCSI MID)**
    - **Portable MDL Receptacle (Micro-MID)**
    - **PCMCIA "bricks" (PDTM)**
      - **Smart fielding - Will coordinate with PMW-187**
- **Resolution:**
  - **Unresolved**

Data Load - PCMCIA Format

- **Issue:**
  - **Format of PCMCIA card in PDTM (Orbital unique vs DOS)**

- **Discussion:**
  - **Direct data load onto non-DOS formatted PCMCIA will require unique device driver**
    - **Licensing ($$$)**
      - **Unrestricted**
      - **Restricted to PMA-233 purchased HW**
  - **Driver will have OS dependency and possibly HW**
  - **Changing to DOS format will require contract mod**
    - **Who will pay? Will PMW-187 agree to time required?**

- **Resolution:**
  - **Unresolved**

  - **Mike “Mr. Dataman” Stine working issue**
  - **Briefed by Orbital 14 Jul**

PC Controller Card

- **Issue:**
  - **Orbital PCMCIA driver does not support all controller cards that might be used by the fleet for N-PFPS data loading.**
    - **Unknown if it supports the Panasonic CF-35.**
- **Discussion:**
  - **Mike Stine is investigating.**
- **Resolution:**
  - **Pending**

IT-21 Recognition

- **Issue:**
  - **IT-21 does not recognize N-PFPS as authorized software.**
- **Discussion:**
  - **PMW-157 is attempting to control all software that is installed on IT-21 hardware.**
    - **Currently planning to test all software that will reside on "their system"**
  - **Issue is not N-PFPS specific. It also will be issue for ATACS, JMPS, etc.**
- **Resolution:**
  - **Unresolved.**

Threat Feed

- **Issue:**
  - **MIDB 2.0 Threat Feed**
- **Discussion:**
  - **SOF has funded MIDB 2.0 threat feed and development has started.**
    - **We have missed the opportunity to team with the SOF and influence its design.**
  - **Will assess design for Navy use.**
  - **Mtg at Ampersand(?) in early August.**
- **Resolution:**
  - **Unresolved**
    - **Direction ?**
    - **$$$$?**

N-PFPS & TAMPS 6.2.X Integration

- **Issue:**
  - **Integration of N-PFPS and 6.2.X**
- **Discussion:**
  - **Extent & Implementation**
  - **Awaiting Engineering Analyses due to 21 Aug.**
- **Resolution:**
  - **Unresolved**

Common Route Definition

- **Issue:**
  - **Ability to pass a route between the various mission tasking, planning and rehearsal systems by use of a single format.**
- **Discussion:**
  - **Technical Mtg held at SpaWar on 21-22 Jul**

- **Resolution:**
  - **XML agreed as a data transfer format**
    - **OS independent**
    - **Extensible**
  - **Common Route Definition Working Group Charter**
    - **PMA-233 to draft.**
  - **Route Data Elements**
    - **Tybrin will collect**
  - **XML format (definition spec)**
    - **Tybrin**

  - **Good 1st step, but many more mtgs / discussions to follow**

Road Show Development

- **Issue:**
  - **N-PFPS personnel availability during Road Show development.**
- **Discussion:**
  - **During Road Show discussions, Hank Davison was identified as a potential player for Road Show development.**
  - **Funding has not been identified for BAI to hire.**
- **Resolution:**
  - **Unresolved.**

Full Time Support

- **Issue:**
  - **Full time assistant at Patuxent River**

- **Discussion:**
  - **Increased N-PFPS activity**
  - **Need full time assistant**
    - **100% up on all N-PFPS issues**
    - **Numerous simultaneous meetings**
    - **Mandatory IPT Lead meetings**

- **Resolution:**
  - **Mr Jon Drof will relocate from Philadelphia to Patuxent River**

SpaWar Philadelphia Support

- **Issue:**
  - **To date, SpaWar Phil support has been 1 person deep**
  - **Jon Drof relocating to Patuxent River**

- **Discussion:**
  - **Logistics Issues**
  - **Help Desk**
  - **Fleet Training**
  - **Documentation Support**

- **Resolution:**
  - **Beth Miles onboard at SpaWar to oversee N-PFPS logistics issues.**
  - **Help Desk personnel will be attending training at Eglin AFB the week of 24 Aug.**
  - **Fleet training and documentation support unresolved.**

FY'97 / FY'98 Bill

- **Issue:**
  - **DCS initiate GPS study on 1 Jul 97. To date, DCS has not received payment.**
- **Discussion:**
  - **To date, DCS has expended ~1200 P-Hrs on effort.**
  - **Will not receive deliverable until DCS is paid.**
- **Resolution:**
  - **Unresolved.**

Other Efforts

- **V-22:**
  - **MV-22 have assessed and are proceeding with using a combination of TAMPS and N-PFPS for OpEval.**
  - **CV-22 will use PFPS for OpEval**
  - **Will schedule brief in Aug.**

- **AH-1:**
  - **Have requested and received ROMs for 2 levels of effort from Eglin AFB.**
  - **Will decide which level to fund by the end of July.**
  - **Development to start on completion of current data load development.**

- **AH-1 (4BW)**
  - **Will Meet in Aug to discuss 4BW requirements.**

Other Efforts (cont)

- **E-2C:**
  - **PMA-231 reassessing using N-PFPS for E-2C.**

- **HH-60H:**
  - **PMA-299 proceeding with installation of N-PFPS into aircraft for moving map capability.**
  - **Will schedule brief in Aug.**

- **ATIMS:**
  - **ATIMS now on PC platform.**
  - **Currently interfacing with SWAMPS**
  - **Jim Artz to brief in Aug.**